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Service Information Bulletin

SUBJECT	DATE
SPN 1592 (CPC) (GHG17)	June 2016

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0193	GHG17 Medium Duty	SPN 1592/FMI 9, 13, 19	New DD5 and DD8 diagnostic procedures.
DDC-SVC-MAN-0191	GHG17 DD Platform	SPN 1592/FMI 9, 13, 19	Updated GHG17 HD diagnostic procedures.

DiagnosticLink users: Please update the troubleshooting guides in DiagnosticLink with this newest version. To update the tool troubleshooting guide, open DiagnosticLink and from the Help – Troubleshooting Guides menu, select the appropriate troubleshooting manual, then click Update.



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2 SPN 1592/FMI 9 - GHG17

J1939 HRW Message (High Resolution Wheel Speed) from ABS is Missing

Table 1.

SPN 1592/FMI 9	
Description	This Fault Code Indicates a Missing Message from the Antilock Brake System (ABS) Module.
Monitored Parameter	J1939 Communication
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Key OFF for Five Minutes, then Key ON, Engine OFF

Check as follows:

1. Check for multiple codes. Are there any SPN 168 (battery voltage) fault codes present?
 - a. Yes; repair the battery voltage concern. Verify repair.
 - b. No; Go to step 2.
2. Is SPN 625/FMI 9 fault code present?
 - a. Yes; repair the Controller Area Network (CAN) line. Verify repair.
 - b. No; Go to step 3.
3. Check for proper configuration of the CPC against the server information. Does the CPC have the proper configuration?
 - a. Yes; refer to the OEM diagnostics for troubleshooting the loss of communication to the ABS module.
 - b. No; check for proper parameter configuration of the CPC against the server information.

3 SPN 1592/FMI 13 - GHG17

J1939 HRW (High Resolution Wheel Speed) Wheel Speed Signal Missing

Table 2.

SPN 1592/FMI 13	
Description	This code will Set when the J1939 Wheel Speed Signal is Not Received
Monitored Parameter	Wheel Speed Sensor Signal
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Key OFF for Five Minutes, then Key ON, Engine OFF

Check as follows:

1. Check for multiple codes. Are there any SPN 168 (battery voltage) fault codes present?
 - a. Yes; repair the battery voltage concern. Verify repair.
 - b. No; Go to step 2.
2. Is SPN 625/FMI 9 fault code present?
 - a. Yes; repair the Controller Area Network (CAN) line. Verify repair.
 - b. No; Go to step 3.
3. Check for proper configuration of the CPC against the server information. Does the CPC have the proper configuration?
 - a. Yes; determine which modules are configured for the vehicle and their communication status. Once this is done, follow the appropriate module communication troubleshooting procedures for the affected module. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.
 - b. No; make corrections to the configuration of the CPC.

4 SPN 1592/FMI 19 - GHG17

J1939 HRW (High Resolution Wheel Speed) Wheel Speed Signal Erroneous

Table 3.

SPN 1592/FMI 19	
Description	This code will Set when the J1939 Wheel Speed Signal is Not Received
Monitored Parameter	Wheel Speed Sensor Signal
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Key OFF for Five Minutes, then Key ON, Engine OFF

Check as follows:

1. Check for multiple codes. Are there any SPN 168 (battery voltage) fault codes present?
 - a. Yes; repair the battery voltage concern. Verify repair.
 - b. No; Go to step 2.
2. Is SPN 625/FMI 9 fault code present?
 - a. Yes; repair the Controller Area Network (CAN) line. Verify repair.
 - b. No; Go to step 3.
3. Check for proper configuration of the CPC against the server information. Does the CPC have the proper configuration?
 - a. Yes; determine which modules are configured for the vehicle and their communication status. Once this is done, follow the appropriate module communication troubleshooting procedures for the affected module. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.
 - b. No; make corrections to the configuration of the CPC.

5 SPN 1592/FMI 9 – GHG17

J1939 HRW (High Resolution Wheel Speed) from ABS is Missing

Table 4.

SPN 1592/FMI 9	
Description	This Fault Code Indicates a Missing Message from the Antilock Brake System (ABS) Module.
Monitored Parameter	J1939 Communication
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Key OFF for Five Minutes, then Key ON, Engine OFF

Check as follows:

1. Check for multiple codes. Are there any SPN 168 (battery voltage) fault codes present?
 - a. Yes; repair the battery voltage concern. Verify repair.
 - b. No; Go to step 2.
2. Is SPN 625/FMI 9 fault code present?
 - a. Yes; repair the Controller Area Network (CAN) line. Verify repair.
 - b. No; Go to step 3.
3. Check for proper configuration of the CPC against the server information. Does the CPC have the proper configuration?
 - a. Yes; refer to the OEM diagnostics for troubleshooting the loss of communication to the ABS module.
 - b. No; check for proper parameter configuration of the CPC against the server information.

6 SPN 1592/FMI 13 - GHG17

J1939 HRW (High Resolution Wheel Speed) Wheel Speed Signal Missing

Table 5.

SPN 1592/FMI 13	
Description	This code will Set when the J1939 Wheel Speed Signal is Not Received
Monitored Parameter	Wheel Speed Sensor Signal
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Key OFF for Five Minutes, then Key ON, Engine OFF

Check as follows:

1. Check for multiple codes. Are there any SPN 168 (battery voltage) fault codes present?
 - a. Yes; repair the battery voltage concern. Verify repair.
 - b. No; Go to step 2.
2. Is SPN 625/FMI 9 fault code present?
 - a. Yes; repair the Controller Area Network (CAN) line. Verify repair.
 - b. No; Go to step 3.
3. Check for proper configuration of the CPC against the server information. Does the CPC have the proper configuration?
 - a. Yes; determine which modules are configured for the vehicle and their communication status. Once this is done, follow the appropriate module communication troubleshooting procedures for the affected module. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.
 - b. No; make corrections to the configuration of the CPC.

7 SPN 1592/FMI 19 – GHG17

J1939 HRW (High Resolution Wheel Speed) Wheel Speed Signal Erroneous

Table 6.

SPN 1592/FMI 19	
Description	This code will Set when the J1939 Wheel Speed Signal is Not Received
Monitored Parameter	Wheel Speed Sensor Signal
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Key OFF for Five Minutes, then Key ON, Engine OFF

Check as follows:

1. Check for multiple codes. Are there any SPN 168 (battery voltage) fault codes present?
 - a. Yes; repair the battery voltage concern. Verify repair.
 - b. No; Go to step 2.
2. Is SPN 625/FMI 9 fault code present?
 - a. Yes; repair the Controller Area Network (CAN) line. Verify repair.
 - b. No; Go to step 3.
3. Check for proper configuration of the CPC against the server information. Does the CPC have the proper configuration?
 - a. Yes; determine which modules are configured for the vehicle and their communication status. Once this is done, follow the appropriate module communication troubleshooting procedures for the affected module. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.
 - b. No; make corrections to the configuration of the CPC.